



CITY OF MILWAUKEE
HEALTH DEPARTMENT

TRAIN THE TRAINER: BIRTHING MOM'S PILOT PROJECT

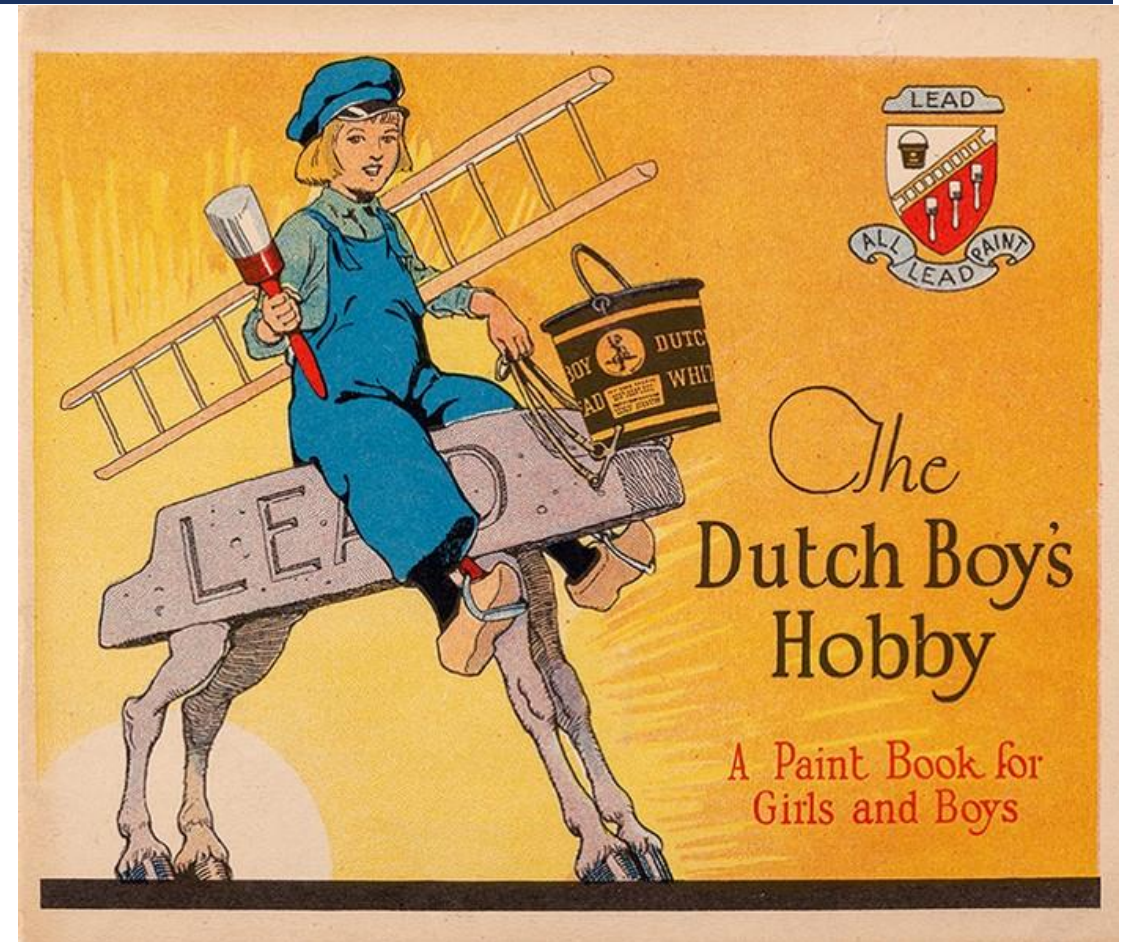
MHD AND COMMUNITY PARTNER PRENATAL AND HOME VISITING PROGRAMS

TODAY'S PRESENTATION

- Foundational facts regarding lead poisoning in Milwaukee
- Background of Birthing Mom's Pilot Project
- Health effects of lead exposure
- Sources of lead exposure
- Lead hazard awareness for common environmental sources
- Your role in the project
- Additional resources

FOUNDATIONAL FACTS ON MILWAUKEE LEAD POISONING

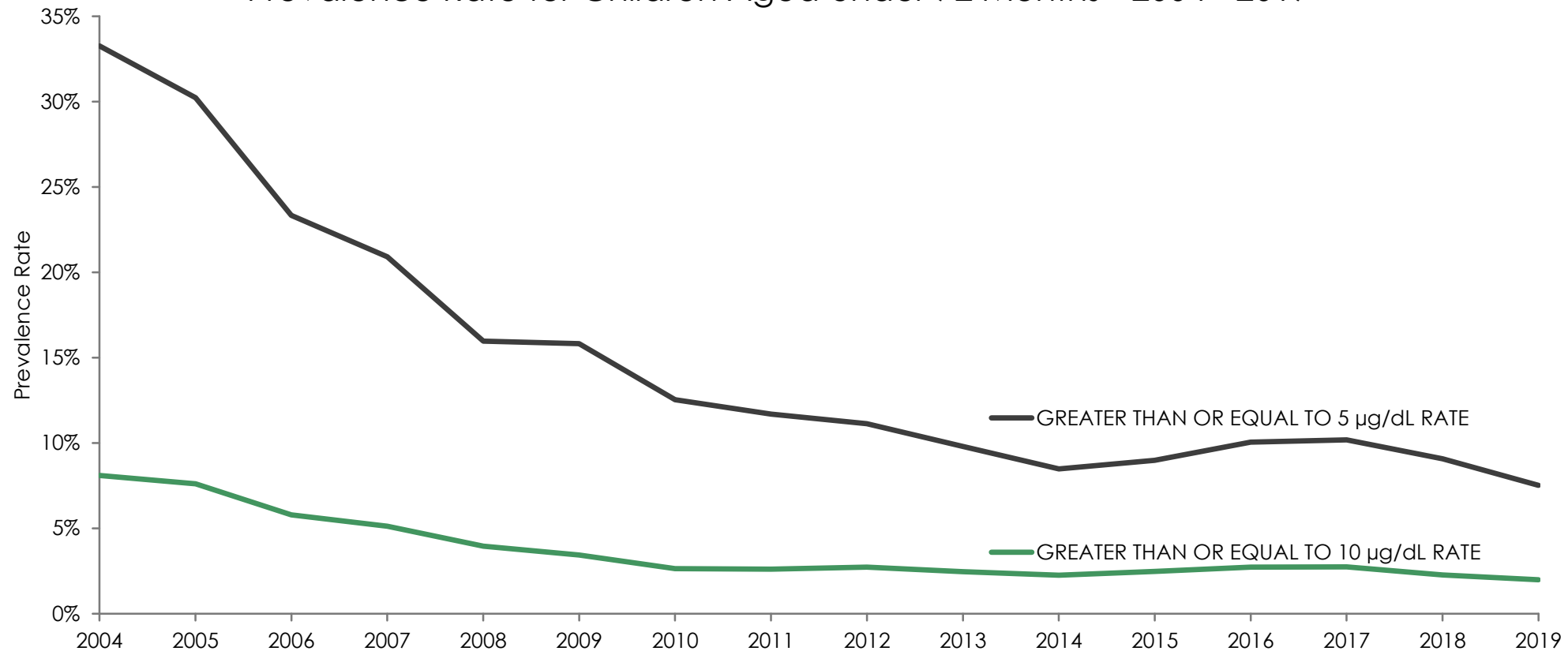
- There are **121,240** residential properties in the city that were built before 1978
- Milwaukee central city has older homes with lead paint
- The city has addressed lead hazards in more than **18,147** properties lead-paint-safe since 1997
- City data show that there were as many as **76,244** lead service lines in Milwaukee
- 2019 DHS **1,860** Milwaukee children 0-6 years of age were poisoned or exposed with blood lead concentrations 5 ug/dL or greater.
- When adjusted for 43% testing penetration and children are exposed in an average of 1.9 homes, it is estimated that more than **8,000** homes impacted children in 2019



FOUNDATIONAL FACTS ON MILWAUKEE LEAD POISONING

City of Milwaukee - Blood Lead Testing

Prevalence Rate for Children Aged Under 72 Months - 2004 - 2019



Source: State of WI Dept. of Health Services HHLPS Data - Retrieved March 2019

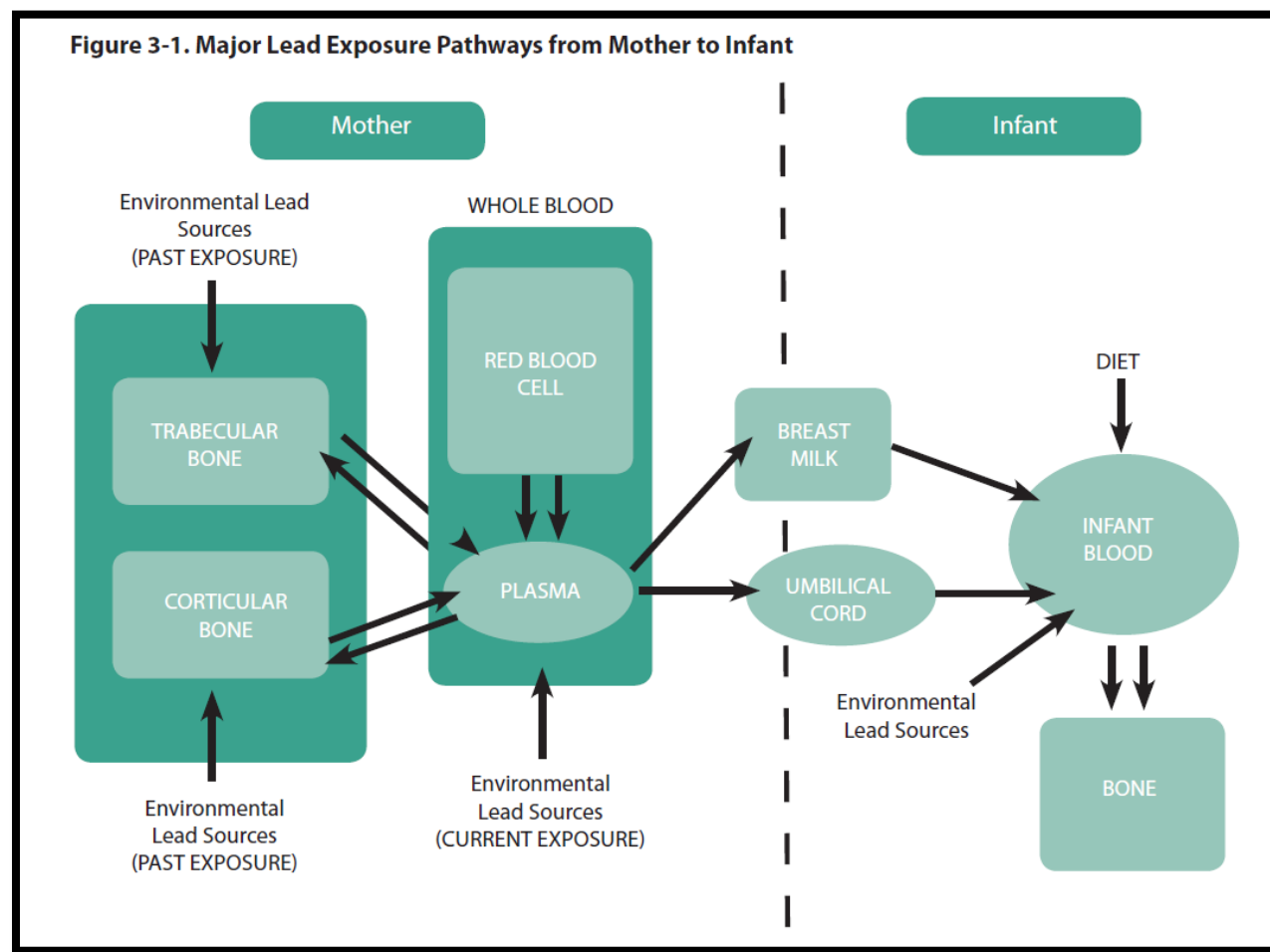
Data is based on the highest single confirmed or reported blood lead test level for an individual child, and the number of unique children tested with a reported City of Milwaukee address.

WHAT IS THE BIRTHING MOM'S PILOT PROJECT?

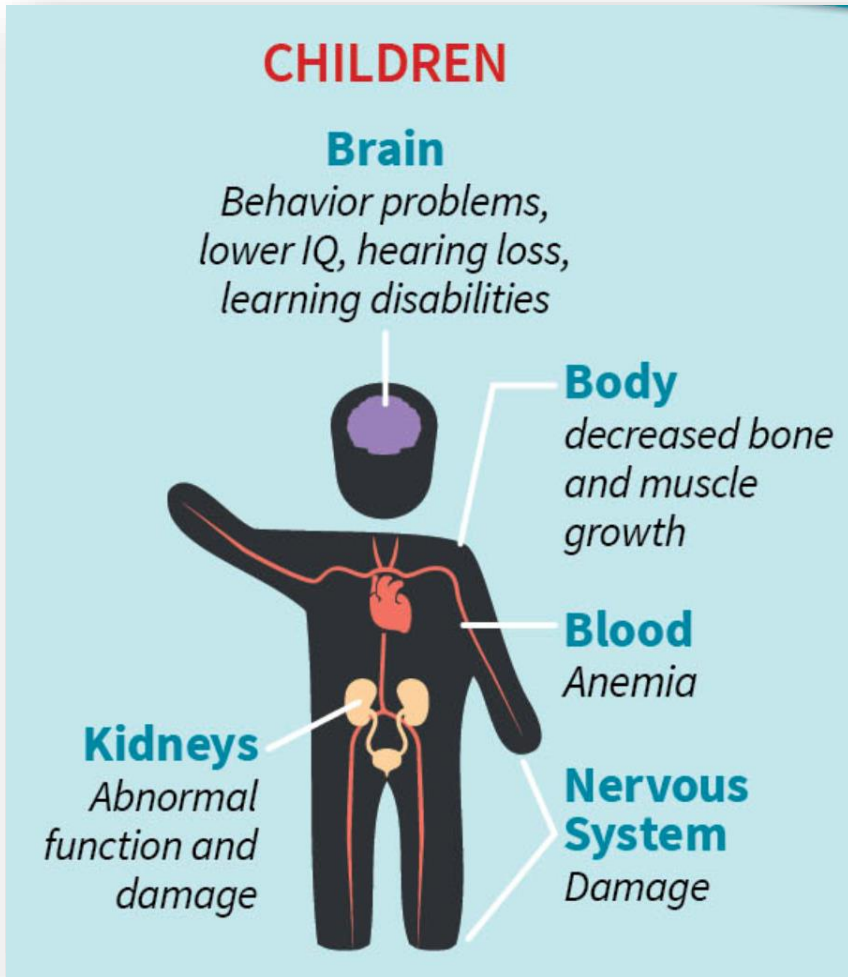
- Nov 2019 Common Council approves \$240,000 supported by the Coalition on Lead Emergency
- Targets birthing moms, but also their unborn child as well as all others in the home in at risk areas of Milwaukee
- Providing lead hazard awareness to identify and address potential lead hazards and lead safe kit

WHY IS THIS PROJECT RESPONSE IMPORTANT?

- Lead has detrimental effects on both the mother's health and her unborn baby



WHY IS THIS PROJECT RESPONSE IMPORTANT? CONT.



- Children under the age of 6 years old are at risk because they are:
 - Growing so rapidly²
 - Hand to mouth behaviors, which can put them in contact with lead- contaminated²
 - Absorb lead **at a rate of 4-5 more** than adults³
- Children living at or below the poverty line who live in older housing are at greatest risk.²
- Children of some racial and ethnic groups and those living in older housing are disproportionately affected by lead.²
- Studies link lead exposure to low achievement in school and behavioral problems
 - “Lead exposure was associated with significantly lower scores in all sections of the WKCE.”⁴
 - “...increase of teacher-reported behavior scores on emotional reactivity, anxiety problems, and pervasive developmental problems...”⁷

WHAT IS THE PROJECT'S STRATEGY?

To reduce families' exposure to lead, we distribute Lead Safe Kits!

- These kits have educational materials and supplies to help reduce the risk of lead exposure from within the home from common lead hazards focused on drinking water, lead paint, and lead dust.



1 Homes built before 1978 (when lead-based paints were banned) probably contain lead-based paint.



3 Lead can be found in some products such as toys and toy jewelry.



2 When the paint peels and cracks, it makes lead dust. Children can be poisoned when they swallow or breathe in lead dust.



4 Lead is sometimes in candies imported from other countries or traditional home remedies.



5 Certain water pipes may contain lead.



2 Certain jobs and hobbies involve working with lead-based products, like stain glass work, and may cause parents to bring lead into the home.

WHAT IS THE PROJECT'S STRATEGY?







The kit provides interim controls (before abatement of the home can be completed) education and supplies for areas that are most likely to have lead hazards:

- Water
- Soil
- Paint
 - Disturbing varnish
 - Dust

The kit also has educational material targeted to pregnant and lactating women:

- Breastfeeding
- Blood testing
- Risks from water
- Lead-safe hygiene



-  Homes built before 1978 (when lead-based paints were banned) probably contain lead-based paint.
 -  Certain water pipes may contain lead.
 -  Lead can be found in some products such as toys and toy jewelry.
 -  Lead is sometimes in candies imported from other countries or traditional home remedies.
 -  Certain jobs and hobbies involve working with lead-based products, like stain glass work, and may cause parents to bring lead into the home.
-  When the paint peels and cracks, it makes lead dust. Children can be poisoned when they swallow or breathe in lead dust.



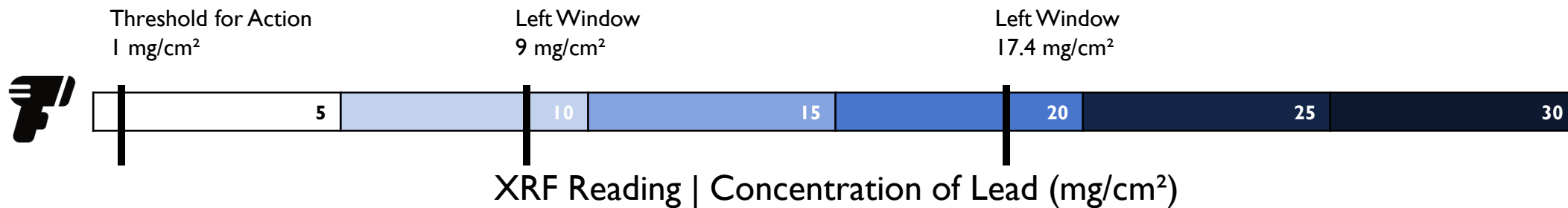
COMMON HAZARDS IN MILWAUKEE HOMES



LEAD HAZARD RECOGNITION

Lead Risk Assessor conducting a x-ray fluorescence (XRF) test on a deteriorated paint to determine the presence of lead.

HAZARD | WINDOWS



HAZARD | DOOR JAM

Before



Interim Control



Threshold for Action
1 mg/cm²



21.8 mg/cm²

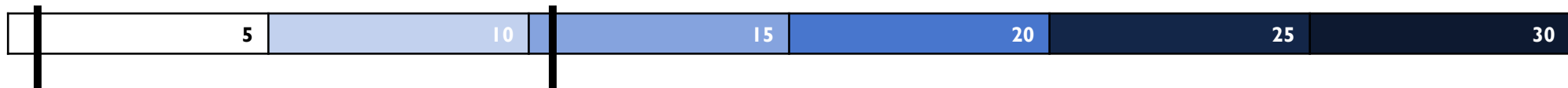
XRF Reading | Concentration of Lead (mg/cm²)

HAZARD | INTERIOR CHIPPING/PEELING PAINT



Threshold for Action
1 mg/cm²

Stair
10.7 mg/cm²



XRF Reading | Concentration of Lead (mg/cm²)

HAZARD | EXTERIOR CHIPPING/PEELING PAINT

Before, Window



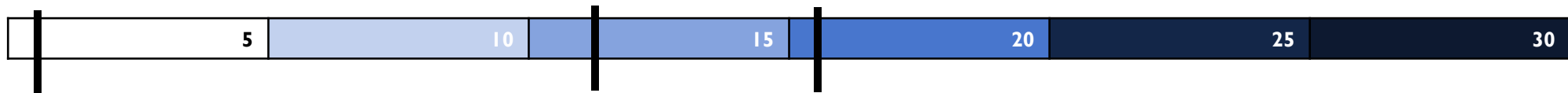
Threshold for Action
1 mg/cm²

Red Window
12.1 mg/cm²

Before, Door Jam



Door Jam
15.8 mg/cm²



XRF Reading | Concentration of Lead (mg/cm²)

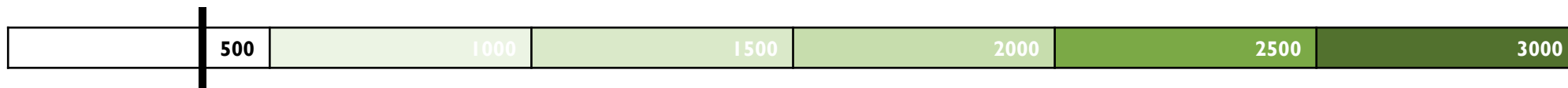
HAZARD | EXPOSED SOIL



Interim Control



Threshold for Action
400 ppm



Soil Sample, Play Area | Concentration of Lead (ppm)

5,700 ppm

WHAT IS THE PROJECT'S STRATEGY?

Each Lead Safe Kit has:

- ✓ Water Filter (with questionnaire)
- ✓ Swiffer Mop
- ✓ Baby Wipes
- ✓ Garbage bags
- ✓ Gloves
- ✓ Duct Tape
- ✓ Educational Materials

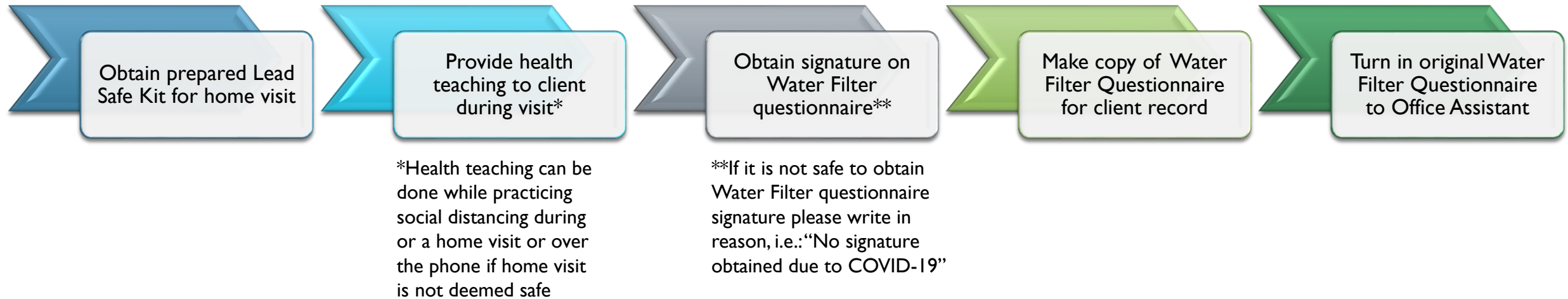


WHAT IS OUR ROLE AS HOMEVISITORS OR EDUCATOR?

1. To provide health education on what lead is, why it is toxic, and where lead hazards can be found in the home
2. Provide education on how to reduce lead hazards in the home with a Lead Safe Kit
3. Collect water filter questionnaires for program monitoring



BIRTHING MOM'S PROJECT PROCESS FLOW



MORE RESOURCES

Go to <https://Milwaukee.Gov/Kit>

- This Presentation - Birthing Mom's Train the Trainer
- Educational Materials
- Water Filter/Lead Safe Kit Questionnaire
- Lead Safe MKE Videos
- Lead Safe Home Improvement including HEPA vacuum instructions

YOUR BIRTHING MOMS PILOT PROJECT CONTACTS

Contact:

Doug Cieslak
Environmental Health Manager
Milwaukee Health Dept
Home Environmental Health
841 Broadway
Zeidler Municipal Building 1st Floor
Office 414-286-6003
Douglas.Cieslak@Milwaukee.gov

Pick up Lead Safe Kits at
Northwest Health Center
7630 Mill Road attached garage
by appointment only.

QUESTIONS?

